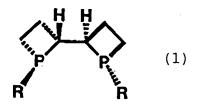
## AMENDMENTS TO THE CLAIMS

Please substitute the following claims for the pending claims with the same numbers respectively:

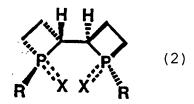
Claim 1 (Currently amended): An optically active diphosphetane compound represented by formula (1): 
[Chem. 1]



(wherein R represents a linear [[,]] or a branched, or cyclic alkyl group having 2 to 20 carbon atoms or a cyclic alkyl group having 3 to 20 carbon atoms).

Claim 2 (Currently amended): A diphosphetane compound represented by formula (2):

[Chem. 2]



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Amendment under 37 CFR 1.111

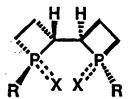
Reply to Office Action dated January 30, 2007

June 7, 2007

(wherein R represents the same as the above a linear or a branched alkyl group having 2 to 20 carbon atoms or a cyclic alkyl group having 3 to 20 carbon atoms, X represents a boron trihydride group, an oxygen atom, or a sulfur atom, and === represents a single bond when X is a boron trihydride group or a double bond when X is an oxygen atom or sulfur atom).

Claim 3 (Currently amended): A phosphetane compound used as an intermediate for producing the compound according to claim 2 of a diphosphetane compound,

the diphosphetane compound represented by formula (2):

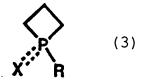


(2)

(wherein R represents a linear or a branched alkyl group having 2 to 20 carbon atoms or a cyclic alkyl group having 3 to 20 carbon atoms, X represents a boron trihydride group, an oxygen atom, or a sulfur atom, and === represents a single bond when X is a boron trihydride group or a double bond when X is an oxygen atom or sulfur atom); and

the phosphetane compound being represented by formula (3):

{Chem. 3}



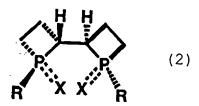
(wherein R, X, and === represent the same as the above represents a linear or a branched alkyl group having 2 to 20 carbon atoms or a cyclic alkyl group having 3 to 20 carbon atoms, X represents a boron trihydride group, an oxygen atom, or a sulfur atom, and === represents a single bond when X is a boron trihydride group or a double bond when X is an oxygen atom or sulfur atom).

Claim 4 (Currently amended): A transition metal complex comprising the The optically active diphosphetane compound according to claim 1, wherein the optically active diphosphetane compound is in a transition metal complex as a ligand.

Please add the following new claims 5-7 as follows:

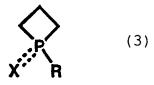
Claim 5 (New): A phosphetane compound used as an intermediate of a diphosphetane compound,

the diphosphetane compound represented by formula (2):



(wherein R represents a linear or a branched alkyl group having 2 to 20 carbon atoms or a cyclic alkyl group having 3 to 20 carbon atoms, X represents a boron trihydride group, an oxygen atom, or a sulfur atom, and === represents a single bond when X is a boron trihydride group or a double bond when X is an oxygen atom or sulfur atom);

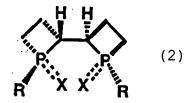
the phosphetane compound being represented by formula (3):



(wherein R represents a linear or a branched alkyl group having 2 to 20 carbon atoms or a cyclic alkyl group having 3 to 20 carbon atoms, X represents a boron trihydride group, an oxygen atom, or a sulfur atom, and === represents a single bond when X is a boron trihydride group or a double bond when X is an oxygen atom or sulfur atom); and

wherein the phosphetane compound represented by formula (3) is 1-boranato-1-tert-butyl-phosphetane.

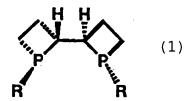
Claim 6 (New): A diphosphetane compound represented by formula (2):



(wherein R represents a linear or a branched alkyl group having 2 to 20 carbon atoms or a cyclic alkyl group having 3 to 20 carbon atoms, X represents a boron trihydride group, an oxygen atom, or a sulfur atom, and === represents a single bond when X is a boron trihydride group or a double bond when X is an oxygen atom or sulfur atom); and

wherein the diphosphetane compound represented by formula (2) is (1S, 1S', 2R, 2R')-1,1'-diboranato-1,1'-di-tert-butyl-[2,2']-diphosphetane.

Claim 7 (New): An optically active diphosphetane compound represented by formula (1):



(wherein R represents a linear or a branched alkyl group having 2 to 20 carbon atoms or a cyclic alkyl group having 3 to 20 carbon atoms);

wherein the optically active diphosphetane compound is comprised in a transition metal complex as a ligand; and

wherein the transition metal complex is one of [rhodium (I) ((1S, 1S', 2R, 2R')-1,1'-di-tert-butyl-[2, 2']-diphosphetane) (norbornadiene)] tetrafluoroborate or [rhodium (I) ((1S, 1S', 2R, 2R')-1,1'-di-tert-butyl-[2, 2']-

diphosphetane) (norbornadiene)] hexafluorophosphate.